

The listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claims 1-8: Cancelled.

**Claims 9-24: Previously Withdrawn**

25. (New) A composition comprising electroprocessed collagen comprising a repeated banding pattern, wherein the repeated banding pattern occurs at a spacing of about 65 nm to about 67 nm.

26. (New) The composition of claim 25, wherein the electroprocessed collagen is collagen type I, II, III, IV, V, VI, VII, VIII, IX, X, XI XII, XIII, XIV XV, XVI, XVII, XVIII or XIX, or a combination thereof.

27. (New) The composition of claim 25, wherein the electroprocessed collagen is collagen type I, II or III, or a combination thereof.

28. (New) The composition of claim 25, wherein the repeated banding pattern occurs at a spacing of about 67 nm.

29. (New) The composition of claim 25, wherein the electroprocessed collagen comprises fibers having a diameter of about 40 nanometers to about 5.5 microns.

30. (New) The composition of claim 25, further comprising one or more substances.

31. (New) The composition of claim 25, further comprising additional electroprocessed material comprising one or more natural materials, one or more synthetic materials, or a combination thereof.
32. (New) The composition of claim 25, further comprising one or more polymers.
33. (New) A composition comprising electroprocessed collagen in a matrix, the matrix comprising a pore size in a range of about 0.2 microns to about 5.3 microns.
34. (New) The composition of claim 33, further comprising one or more substances.
35. (New) The composition of claim 34, wherein the one or more substances is cells.
36. (New) The composition of claim 34, wherein the one or more substances is elastin, laminin, integrin or proteoglycan, or a combination thereof.
37. (New) The composition of claim 33, the matrix further comprising additional electroprocessed material comprising one or more natural materials, one or more synthetic materials, or a combination thereof.
38. (New) The composition of claim 33, further comprising one or more polymers.
39. (New) The composition of claim 33, the matrix having a thickness of about 50 microns to about 400 microns.
40. (New) A composition comprising electroprocessed collagen comprising a blend of at least two types of collagen.

41. (New) The composition of claim 40, wherein the at least two types of collagen are selected from the group consisting of collagen type I, II, III, IV, V, VI, VII, VIII, IX, X, XI, XII, XIII, XIV, XV, XVI, XVII, XVIII and XIX.

42. (New) The composition of claim 40, wherein the at least two types of collagen are selected from the group consisting of natural collagen, pro-collagen, genetically modified collagen, chemically modified collagen, and a combination thereof.

43. (New) The composition of claim 40, further comprising one or more polymers.

44. (New) The composition of claim 40, comprising a pore size of about 22 microns to about 30 microns.

45. (New) The composition of claim 40, further comprising one or more substances.

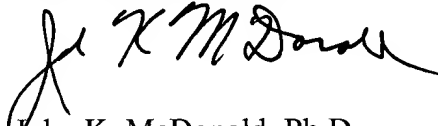
46. (New) The composition of claim 40, further comprising additional electroprocessed material comprising one or more natural materials, one or more synthetic materials, or a combination thereof.

### CONCLUSION

Applicants respectfully assert that this response addresses the concerns raised in the Notice of Non-Compliant Amendment mailed July 22, 2004. The Examiner stated that a Non-Compliant Amendment was submitted to the U.S. Patent Office on July 2, 2004, in reference to the non-final Office Action dated March 10, 2004. Applicants respectfully request entry of the claim amendments submitted herein. If the Examiner believes there are other issues that can be resolved by telephone interview, or that there are any informalities remaining in the application which may be corrected by Examiner's Amendment, a telephone call to the undersigned attorney at (404) 815-6500 is respectfully solicited.

No additional fees are believed due; however the Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account number 11-0855.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "John K. McDonald". The signature is fluid and cursive, with the first name "John" and last name "McDonald" clearly distinguishable.

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